Protein		Biological Process	Shape (border color)
YCS FFA	initiation of apoptosis apsubstrate for caspase-3 and triggers DNA fragmentation during	poptosis	parallelogram
	apoptosis		
PP2R1A	apoptosis and endoplasmic reticulum (ER) stress associated protein		
PP2R2B	apoptotic process		
RPS3A	transcription; metastasis; DNA repair; apoptosis		
STK24	MAPK signaling; programmed cells death		
ΓP53	DNA repair; apoptotic process; cellular stress response		
YWHAQ	apoptotic process		
DFFB		poptosis/hippocampus	parallelogram
GABARAPL2	GABA receptor binding; autophagy; intra-Golgi vesicle-mediated au	utophagy/synaptic transmission/GABA	octagon
ECHS1	transport; protein transport hydration of 2-trans-enoyl-coenzyme A (CoA) intermediates	ell processes	circle (pink)
GNL2	GTP catabolic process; ribosome biogenesis	eli processes	circle (pirik)
GOT2	Glutamic-oxaloacetic transaminase; amino acid metabolisms		
RRC59	cellular component of endoplasmic reticulum membrane		
NAP1L1	DNA replication; positive regulation of cell proliferation		
PAICS	purine nucleobase biosynthetic process		
PCNA	RAD6-dependent DNA repair; cell proliferation; cell cycle		
ROD1	Official Symbol: PTBP3. Regulator of cell differentiation		
TMEM33	transmembrane protein; component of melanosome	- Harris - Arthur - A	-5-1- () IX
ESR1	9 1 1 9	ell processes/ bioenergetic systems	circle (pink)
ΓKT	channeling of excess sugar phosphates to glycolysis; energy reserve metabolic process		
HSPE1	•	ell processes/chaperonin	circle (nink)
OLFM2	·	ell processes/chaperonin ell processes/signaling	circle (pink) circle (pink)
/WHAB	signal transduction/14-3-3 protein family	on processes/signaling	onoie (birik)
EPB41		ytoskeleton	circle (green)
MAEA	cytoskeleton organization	, 	(9.00.1)
SCN1	formation of actin-based cellular protrusions; cell migration; motility; cy	ytoskeleton/actin	circle (green)
	adhesion; interactions	-	,
MTPN	actin-driven cell movements and motility during neuronal development		
OVN	autockoloton organization; actis mambrana attacherent		
PXN	cytoskeleton organization; actin-membrane attachment		
RHPN2 VAS	(Rho)-GTPase binding protein; actin cytoskeleton organization actin cytoskeletal organizing		
WHAZ	14-3-3 protein; cofilin-based regulation of actin filament dynamics;		
	synaptic plasticity		
CACYBP		ytoskeleton/tubulin	circle (green)
CACYBP	synaptic plasticity	ytoskeleton/tubulin	circle (green)
RUVBL1	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome	ytoskeleton/tubulin	circle (green)
RUVBL1	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule	ytoskeleton/tubulin	circle (green)
RUVBL1 TACC2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization		
RUVBL1 FACC2 MBNL1	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy	ytoskeleton/tubulin-associated	circle (green)
RUVBL1 TACC2 MBNL1 TNF	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in	ytoskeleton/tubulin-associated nflammation/cell death	circle (green) diamond
RUVBL1 TACC2 MBNL1 TNF	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau ocy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in	ytoskeleton/tubulin-associated nflammation/cell death	circle (green)
RUVBL1 FACC2 MBNL1 FNF ANXA2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding	ytoskeleton/tubulin-associated nflammation/cell death	circle (green) diamond
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation	ytoskeleton/tubulin-associated nflammation/cell death nflammation/immune function	circle (green) diamond diamond
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cy microtubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding	ytoskeleton/tubulin-associated nflammation/cell death nflammation/immune function	circle (green) diamond
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF AGER	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation	ytoskeleton/tubulin-associated nflammation/cell death nflammation/immune function	circle (green) diamond diamond
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF AGER \$100A11	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io	ytoskeleton/tubulin-associated nflammation/cell death nflammation/immune function nflammation/neuroglia processes	circle (green) diamond diamond diamond
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau organifammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel	circle (green) diamond diamond diamond triangle
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF AGER \$100A11 KCNH1	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; neupregulation involved in neuronal degeneration; AGER (RAGE)	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel	circle (green) diamond diamond diamond triangle triangle (red)
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel	circle (green) diamond diamond diamond triangle triangle (red)
RUVBL1 FACC2 MBNL1 FINF ANXA2 MIF AGER 8100A11 CONH1 8100A6	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel	circle (green) diamond diamond diamond triangle triangle (red)
MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; neupregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B TSEN2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B TSEN2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6 S100B TSEN2 BMPR2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
CACYBP RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B TSEN2 BMPR2 CSK	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation;	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6 S100B FSEN2 BMPR2 CSK	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development neuronal development; hippocampal neuronal plasticity upon brain injury neuronal ceser tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 FINF ANXA2 MIF AGER S100A11 KCNH1 S100A6 S100B FSEN2 BMPR2 CSK	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation;	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 CCNH1 S100A6 S100B TSEN2 BMPR2 CSK ERBB2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cyinflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development neuronal development; hippocampal neuronal plasticity upon brain injury neuronal ceser tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6 S100B FSEN2 BMPR2 CSK ERBB2 HPRT1	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development ne brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 PACC2 MBNL1 PACC3 MBNL1 PACC4 MBNL1 PACC5 MBNL1 PACC6 MBNL	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development ne brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$5100B TSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV LCK	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV LCK PPFIBP1	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development ne brain development; hippocampal neuronal plasticity upon brain injury ne c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 KCNH1 S100A6 S100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV CK PPFIBP1 STK38	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV CK CK FSTK38 FAGLN2	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euroglia processes	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 CCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV CK PPFIBP1 STK38 FAGLN2 ZIC5	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond triangle triangle (red) rectangle hexagon hexagon
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B TSEN2 BMPR2	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development ne brain development; hippocampal neuronal plasticity upon brain injury ne c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development; glial cell differentiation; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle
RUVBL1 TACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B TSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV LCK PPFIBP1 \$TK38 TAGLN2 ZIC5 CBR1	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development ne brain development; hippocampal neuronal plasticity upon brain injury ne c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle hexagon hexagon
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV LCK PPFIBP1 STK38 FAGLN2 ZIC5 CBR1	synaptic plasticity calcyclin (\$100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau cy inflammation in microtubule-associated tau protein stabilization in cortex neurons; in inflammation; \$100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel io Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development in brain development; hippocampal neuronal plasticity upon brain injury in c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation Aliases: p16; INK4A. cell cycle; epigenetic response during nerve	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle hexagon hexagon
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER S100A11 GCNH1 S100A6 S100B TSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV CK PPFIBP1 STK38 FAGLN2 ZIC5 CBR1 CDKN2A	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein potassium voltage-gated channel calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle hexagon hexagon
RUVBL1 FACC2 MBNL1 FNF ANXA2 MIF AGER \$100A11 KCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV LCK PPFIBP1 STK38 FAGLN2 ZIC5 CBR1 CDKN2A	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein io potassium voltage-gated channel Calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght neurite outgrowth; mediators of the nitric oxide/cGMP signaling	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle hexagon hexagon
RUVBL1 FACC2 MBNL1 TNF ANXA2 MIF AGER \$100A11 CCNH1 \$100A6 \$100B FSEN2 BMPR2 CSK ERBB2 HPRT1 TGAV CK PPFIBP1 STK38 FAGLN2 ZIC5	synaptic plasticity calcyclin (S100A6) binding neuronal protein; organization of cymicrotubules tubulin association; centrosome cellular growth and differentiation; centrosomal microtubule stabilization; microtubule organization splicing of microtubule-associated protein Tau inflammation microtubule-associated tau protein stabilization in cortex neurons; in inflammation; S100A10 binding cell-mediated immunity; immunoregulation; inflammation Aliase: RAGE. Receptor for advanced glycation end-products; in apoptosis; inflammation Ca2(+)-binding protein potassium voltage-gated channel calcyclin. Calcium binding protein; nervous system function; ne upregulation involved in neuronal degeneration; AGER (RAGE) interactor astroglial activation; neuronal synaptic plasticity; axonogenesis; central nervous system development; learning and memory tRNA splicing endonuclease subunit involved in brain development brain development; hippocampal neuronal plasticity upon brain injury c-src tyrosine kinase; calcium channel sparklet activity regulation; regulation of NMDAR nervous system development; glial cell differentiation; axon guidance specification and development of neurons cell adhesion; migration; axon guidance Src kinase-family; expressed in neurons of the hippocampus axon guidance; synapse development Aliase: NDR. Neuron fate specification and circuit formation; dendrite morphogenesis neuron development; estrogen-regulated neuronal development NADPH-dependent oxidoreductase; neurite outgrowth via Stat3 ne activation Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght	ytoskeleton/tubulin-associated inflammation/cell death inflammation/immune function inflammation/neuroglia processes on binding on channel/voltage-gated channel euroglia processes euronal development euronal development/plasticity	circle (green) diamond diamond diamond triangle triangle (red) rectangle hexagon hexagon

RANBP1	Ran GTPase system; importin-dependent transport and signaling;	
CMAD4	cytoskeleton dynamics; neurite outgrowth in mammalian neuron	
SMAD4 WDR36	dendritic growth and complexity and neuron cell body size Axon outgrowth	
G3BP2	expression level altered in temperal lobe epilepsy; signal transduction; neuroprotection	rectangle (red)
P4HB	transport; stress granule formation Aliase: PDI. Act as a chaperone; neuroprotection; subunit of the	
1 4115	microsomal triglyceride transfer protein complex	
PHB2	neuronal survival	
PIN1	neuronal differentiation and survival; stress response	
SFN SULT1E1	signal transduction/14-3-3 protein family catalyzes sulfate conjugation of neurotransmitters and hormones; neuroprotection/cholesterol metabolism	rectangle (red)
0021121	control levels of estrogen receptors; metabolism of cholesterol and neurosteroids	restange (res)
ABL1	synaptic structure and function regulation; synapse formation in synaptic transmission neurons	vee
ARRB1	G-protein coupled receptor internalization; positive regulation of Rho protein signal transduction	
DLG4	protein localization to synapse; axon guidance; nervous system development	
GDI1	regulate the GDP-GTP exchange reaction of Rab family members,	
ITGB3	involved in vesicular trafficking; membrane transport in neurons cell adhesion; migration; signaling; modulator of serotonergic systems	
MDM2	ubiquitin-protein ligase activity; zinc ion binding; synaptic transmission	
PEBP1	Aliase: HCNP. Regulation of neurotransmitter levels; stimulates	
S100A1	enzymatic activity of choline acetyltransferase in neurons Ca2+-dependent regulation of synaptic vesicle trafficking; endocytosis;	
YWHAG	axonal projection; neuroplasticity 14-3-3 protein; regulation of neuron differentiation; regulation of	
PPIB	synaptic plasticity cyclophilin B. Presynaptic function; membrane tracfficking of GABA synaptic transmission/GABA receptors	vee
CELF1	Aliase: BRUNOL2. mRNA editing transcriptional regulation	circle (yellow)
CLP1	RNA splicing; mRNA 3'-end processing	,
EIF1	translation initiation factor	
EIF1B	translation initiation factor	
EWSR1	RNA processing and transport	
FTSJ1	RNA processing and modification; hypoexpression associated to intellectual disability, language delay, autistic behaviors, and seizures	
HNRNPH1	mRNA processing; splicing regulator	
HNRNPR	mRNA processing; splicing regulator	
LARP4	cell morphogenesis; mRNA homeostasis	
MLXIP	regulation of genes in response to cellular glucose levels	
NOP56 RBBP4	rRNA processing	
NDDF4	histone acetylation and chromatin assembly; transcriptional repression of E2F-responsive genes	
	repression of Ezr-responsive genes	
	ribosomal protein S11	
RPS9	ribosomal protein S11 regulation of translation	
RPS11 RPS9 SLIRP	ribosomal protein S11	
RPS9 SLIRP U2AF2	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of trasncription regulation of transcription; mRNA processing	
RPS9 SLIRP U2AF2	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of trasncription regulation of transcription; mRNA processing	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit	parallelogram (pink)
RPS9	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3 PSMB5	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3 PSMB5 PSMB5 PSME3 RMND5B UBE2D2	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit 3 Aliase: GID2. Degradation of gluconeogenic enzymes via ubiquitin	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3 PSMB5 PSMB5 PSMB5 UBE2D2 UBE2D2 UBE2D3	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit 3 Aliase: GID2. Degradation of gluconeogenic enzymes via ubiquitin proteasome protein binding; ubiquitination apoptotic process; protein ubiquitination	parallelogram (pink)
RPS9 SLIRP J2AF2 ARRB2 PMPCA PSMA1 PSMB1 PSMB3 PSMB5 PSMB5 PSMB5 UBE2D2 UBE2D3 UBE2D4	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit 3 Aliase: GID2. Degradation of gluconeogenic enzymes via ubiquitin proteasome protein binding; ubiquitination apoptotic process; protein ubiquitination protein ubiquitination	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3 PSMB5 PSMB5 UBE2D2 UBE2D2 UBE2D3 UBEZD4 UBEZD4 UBEZD4	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit 3 Aliase: GID2. Degradation of gluconeogenic enzymes via ubiquitin proteasome protein binding; ubiquitination apoptotic process; protein ubiquitination protein ubiquitination cell cycle; ubiquitination	parallelogram (pink)
RPS9 SLIRP U2AF2 ARRB2 PMPCA PSMA1 PSMA6 PSMB1 PSMB3 PSMB5 PSME3	ribosomal protein S11 regulation of cell proliferation; regulation of translation steroid receptor RNA activator interaction; regulation of transcription regulation of transcription; mRNA processing G-protein coupled receptor binding; ubiquitin protein ligase binding ubiquitination proteolysis member of multicatalytic proteinase complex (proteasome), subunit alpha type, 1 member of multicatalytic proteinase complex (proteasome), subunit alpha type, 6 member of multicatalytic proteinase complex (proteasome), subunit beta type, 1 member of multicatalytic proteinase complex (proteasome), subunit beta type, 3 member of multicatalytic proteinase complex (proteasome), subunit beta type, 5 member of multicatalytic proteinase complex (proteasome), subunit 3 Aliase: GID2. Degradation of gluconeogenic enzymes via ubiquitin proteasome protein binding; ubiquitination apoptotic process; protein ubiquitination protein ubiquitination	parallelogram (pink)